TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT Docket No. (Under 37 CFR 1.97(b) or 1.97(c)) **YAFO-007** In Re Application Of: DAMASK, Jay N. WL 1 5 2003 Serial No. Filing Date Examiner Group Art Unit 09/911,898 July 24, 2001 connelly-Cushwa, Michelle 2874 Title: Polarization Mode Dispersion Generator Address to: **Commissioner for Patents** P.O. Box 1450 Alexandria, VA 22313-1450 37 CFR 1.97(b) The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114. 37 CFR 1.97(c) The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of: ☐ the statement specified in 37 CFR 1.97(e); **OR** the fee set forth in 37 CFR 1.17(p). /2003 JADDO1 00000078 09911898 01 F):1806 180.00 OP

	F INFORMATION DISCLO Inder 37 CFR 1.97(b) or 1.97		Docket No. YAFO-007
In Re Application: I	DAMASK, Jay N.	TO HE WAY	
Serial No. 09/911,898	Filing Date July 24, 2001	Examiner Connelly-Cushwa,	Group Art Unit
Polarization Mode	Dispersion Generator		
		ent of Fee ets to pay the fee set forth in 37 CFR 1.1	7(p))
as described below Charge th Credit any Charge ar Certificate of T	e amount of v overpayment. ny additional fee required. ransmission by Facsimile* ent and authorization to charge depositional transmitted to the United States	Certificate of Mailing by I	First Class Mail ee is being deposited e U.S. Postal Service C.F.R. 1.8 and is
(Date)	Signature	1450, Alexandria, VA 22313-1450 Signature of Person Maili.).
Typed or Printed Na	nme of Person Signing Certificate	Typed or Printed Name of Person	Mailing Certificate
*This certificate may deposit account. Stephen R. W. Sig	only be used if paying by 34,753 enature	Dated: 7 /15 /03	

			TPE		Docket Number (Optional) YAFO-007		Application Number	r 911,898	
	(Use several sheets if necessary)			Applicant(s) DAMASK, Jay N.			711,070		
			JUL 1 5 2010	ונו מו	Filing Date July 24, 2001		Group Art Unit	2874	
			a	S. PAT	TENT DOCUMENTS	1_		·0/4	
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS		G DATE
		4,341,442	07/27/1982	Johnson	1		1	IF APPRO	ROPRIATE
		5,430,795	07/04/1995	Taga et	al.				
		5,473,457	12/05/1995	Ono					
		5,587,827	12/24/1996	Hakimi (et al.		+		***
		5,600,738	02/04/1997	Bergland	d et al.				
		5,659,412	08/19/1997	Hakki			0	r-1	
		5,793,511	08/11/1998	Bulow			C (=	5	
		5,796,510	08/18/1998	Yao			77 71		
		5,822,100	10/13/1998	Robinson	n et al.		53 13	13	
		5,859,939	01/12/1999	Fee et al.			2		
		5,930,414	07/27/1999	Fishman	ı et al.	<u> </u>	1		
· · · · · · · · · · · · · · · · · · ·				FOREIGN	N PATENT DOCUMENTS				
	REF	DOCUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	Transl YES	slation NO
		WO 99/53363 A2	10/21/199	PCT					110
		WO 00/03505 A1	01/20/2000	РСТ					
		WO 00/13056 A2	03/09/2000	РСТ					
		WO 00/36459 A1	06/22/2000	PCT					
		WO 00/65404 A1	11/02/2000	PCT					
					OCUMENTS (Including Au	sthor, Title, D	ate, Pertinent Pag	es, Etc.)	
		Betti et al., "Phase Nois No. 5, at 756-76 (May 19	e and Polarization 990)	State Inse	ensitive Optical Coherent Sy	ystems," Jou	urnal of Lightwa	ave Tech.,	Vol. 8,
		Bulow, "Operation of D Dispersion," Electronics	igital Optical Trai s Letters, Vol. 31, !	nsmission S No. 3, at 21	System with Minimal Degra 14-15, (Feb 2, 1995)	adation Due	to Polarisation	Mode	
XAMINER	,			<u></u>	DATE CONSIDERED				
XAMINER ot consider	.: Initia ed. Inc	al if citation considered, whether clude copy of this form with next c	or not citation is in c	conformance pplicant.	with MPEP Section 609; Dra	w line throug	gh citation if not i	n conforma	ince and

	··	IPE	-	ATTY DOCKET NO. YAFO-0		SERIAL NO.	/911,898	
IN	NFORMATION DISCLOSUR (Use several sheets if nece		TO IL	DAMASK, Jay N.				
		JUL 1 5		FILING July 24, 20	001	GROUP	2874	
		U.	S. POTENT	F DOCUMENTS				
'EXAMINER INITIAL	DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS	FILING DAT	
	5,978,125	11/02/1999	Yao				IF OLLOws	RIATE
	6,011,253	01/04/2000	Hakki					
	6,104,515	08/15/2000	Cao				-	
·	6,130,766	10/10/2000	Cao					
	6,271,952	08/07/2001	Epworth	h				
	6,282,333	08/28/2001	Dultz et	al.		†		
						·~	7)	
						00 (3		
						1		
							3	
						3		
		FORE	EIGN PATE	NT DOCUMENTS				
	DOCUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	TRANSL YES	
	WO 01/40831	06/07/2001	PCT				YES	NO_
	WO 01/48957	07/05/2001	PCT					
	WO 01/61303	08/23/2001	PCT					
	WO 01/61385	08/23/2001	PCT					
						+		
	OTHER DOCUME	ENTS (Including	g Author,	Title, Date, Pertinen	nt Pages, Etc.			
								
				- 				
EXAMINER			1	DATE CONSIDERED				
*EXAMINER: In	nitial if reference considered, whether	ner or not citation is i	in conforma	nce with MPEP 609; Dra	w line through ci	tation if not in co	nformance	and not

Form PTO-A820 (also form PTO-1449)

considered. Include copy of this form with next communication to applicant.

P09C/REV03

Patent and Trademark Office * U.S. DEPARTMENT OF COMMERCE

		(O)1 (A)	Docket Number (Optional)	Application Number
INI	rΩDM	IATION DISCLOSURE CITATION	YAFO-007	09/911,898
ELVE		AATION DISCLOSURE CITATION (Use several sheets if necessary) JUL 1 5 2003	Applicant(s) DAMASK, Jay N.	
		The state of the s	July 24, 2001	Group Art Unit 2874
*EXAMINER INITIAL			itle, Date, Pertinent Pages, Etc.)	
	1	Bulow, "Limitation of Optical First-Order PMD Co. 1999)	ompensation," OFC/IOOC '99 Techni	ical Digest, Vol. 2, at 74-76 (February
	V	Bulow et al., "PMD Mitigation at 10Gbits/s Using I Electronic Letters, Vol. 36, No. 2, at 163-64, (Janua	Linear and Nonlinear Integrated Elect ary 20, 2001)	ronics Equalizer Circuits,"
•	J	Bulow et al., "Electronic Equalization of Fiber PMI (February 1998)	D-Induced Distortion at 10Gbits/s" O	FC '98 Technical Digest, at 151-52,
-	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Cariali et al., "Electronic Compensation of PMD an Electronic Letters, Vol. 36, No. 10 at 889-91, (May	nd Chromatic Dispersion with an IC in 11, 2000)	Gbits/s Transmission System,"
	 	Chbat, "Mitigation of Polarization Mode Dispersion	on" LEOS '99, Vol. 1, at 151-52, (Nove	mher (1999)
	1		 ,	
		Chbat et al., "Long Term Field Demonstration of O Technical Digest, Vol. Suppliement, at 12-1/12-3, (Fi	Optical PMD Compensation on an Instr	alled OC-192 Link," OFC/IOOC '99
				1000
		Chen, "System Impairment Due to Polarization Mod (February 1999)	de Dispersion," OFC/IOOC '99 Techn	ical Digest, Vol. 2, at 77-79,
		Chiba et al., "Polarization Stabilizer Using Liquid C No. 5, at 885-890, (May 1999)	Orystal Rotatable Waveplates," Journa	al of Lightwave Technology, Vol. 17,
		Chowdury et al., "Measurment of Dispersion Comp. 160-61, (1997)	ensating Module Polarization-Mode D	ispersion Statistics, OFC '97, at
		Evans, "The Birefringent Filter," Journal of the Op	otical Society of America, Vol. 39, No. 3	3, at 229-42 (March 1949)
		Fini et al., "Accumulation of Polarization-Mode Disp Technology Letters, Vol. 13, No. 2, at 124-26, (Febru	persion in Cascades of Compensated C uary 2001))ptical Fibers," IEEE Photonics
		Gisin et al., "Polarization Mode Dispersion: Time Vo at 316-23, (May 1992)	erses Frequency Domains," Optics Co	mmunications, Vol. 89, Nos. 2, 3, 4
XAMINER	1		DATE CONSIDERED	
EXAMINER: In ot considered. I	itial if c	citation considered, whether or not citation is in conforman copy of this form with next communication to applicant.	ice with MPEP Section 609; Draw line thro	ough citation if not in conformance and

	0, 4	YAFO-007	Application Number
INFORM	MATION DISCLOSURE CITATION (Use several sheets if necessary)	Applicant(s)	09/911,898
	(Use several sheets if necessary)	DAMASK, Jay N.	
	· · · · · · · · · · · · · · · · · · ·	Filing Date July 24, 2001	Group Art Unit
*EXAMINER		July 24, 2001	2874
INITIAL	OTHER DOCUMENTS THE AUTHOR, THE		
	Glingener et al., "Polarization Mode Dispersion Co OFC/IOOC '99 Technical Digest, Vol. Supplement,	ompensation at 20 Gb/s with a Co	mpact Distributed Equalizer in LiNbO3,"
	Orchooc 33 recument Digest, von Supplement,	, at PD29/1-PD29/3 (February 199	<i>1</i> 9)
	Hakki, "Polarization Mode Dispersion Compensati	ion By Phase Diversity Detection,'	" IEEE Photonics Technology Letters.
1	Vol. 9, No. 1, at 121-23 (January 1997)	, , , , , , , , , , , , , , , , , , ,	1000 x 10000100 - 000001000
1			
	Harris et al "Ontical Network Synthesis Using Ri	fulrant Cristals #1 Synthesis	CT 1 TO 1 CD 11 TO 1
-	Harris et al., "Optical Network Synthesis Using Bir Crystals," Journal of the Optical Society of Americ	ea, Vol. 54, No. 10, at 1267-79 (Oc	of Lossless Networks of Equal-Length tober 1964)
			•
•	Usismann "Tutovial: Palarization Made Dispersion	- 1 - 1 Y	
	Heismann, "Tutorial: Polarization Mode Dispersion '98, Vol. Supplement, at 51-79 (September 1988)	a: Fundamentals and Impact on O	Optical Communications Systems," ECOC
	Heismann et al., "Automatic Compensation of 1st O ECOC '98, Vol. 1 at 529-30 (September 1998)	order Polarization Mode Dispersion	on in a 10 Gb/s Transmission System,"
	, , , , , , , , , , , , , , , , , , ,		,
			'
	Hinz et al., "Polarization Mode Dispersion Compen Electronics Letters, Vol. 35, No. 14 at 1185-86 (July	sation for 6ps, 40 Gbit/s Pulses U	sing Distributed Equalizer in LiNbO3,"
	Electronics Letters, vol. 33, 170. 17 at 1103-00 (out,	8, 1999)	
	Ishikawa et al., "40-Gbit/s Transmission Over High	PMD Fiber with Automatic PMI	D Compensation, APCC/OECC '99, Vol. !
	at 424-27 (October 1999)		,
			,
	Kikuchi, "Analysis of Signal Degree of Polarization	Degradation Used as Control Sig	of faw Ontical DMDC !! Inurnal of
	Lightwave Technology, Vol. 19, No. 4 at 480-86 (Ap	ril 2001)	natior Optical rivide, Journal of
			!
	Kudou et al., "Theoretical Basis of Polarization Mod	de Dianamian Fanalization Un to	
	Technology, Vol. 18, No. 4, 614-17 (April 2000)	Te Dispersion Eduantiation ob to	the 2nd Order," Journal of Lightwave
	2.		!
	Lee et al., Adjustable Compensation of Polarization Bragg Grating," IEEE Photonics Technology Letter	Mode Dispersion Using a High-Birs, Vol. 11, No. 10 at 1277-79 (Oct	irefrngence Nonlinearly Chirped Fiber (abber 1999)
	ि से		
		-	
4	Mollar, "Filter Synthesis for Braodband PMD Com 12, No. 9 at 1258-60 (September 2000)	pensation in WDM Systems," IEF	EE Photonics Technology Letters, Vol.
4 1	(September 2000)		
	C)		
	Moller et al., "Spectral Resolved PMD Vector Manie	toring Using a Scanning Fabry-P	erot Filter and a Polarimeter," LEOS
	(Laser and Electro-Optics Society) '00 - 13th Annua	1/ IEEE Vol. 1, No. TuJ4 at 220-2	221 (November 13-16, 2000)
			1
XAMINER		DATE CONSIDERED	
		DATE CONSIDERED	
EXAMINER: Initial if	citation considered, whether or not citation is in conforman	ce with MPEP Section 609; Draw line	e through citation if not in conformance and

	OTF	E	Docket Number (Optional)	Application Number			
INFORM	ATION DISCLOSURE CITATIO	IN S	YAFO-007 Applicant(s)	09/911,898			
	(Use several sheets if necessary)	1 5 2000 3	DAMASK, Jay N.				
		, J	Filing Date July 24, 2001	Group Art Unit 2874			
*EXAMINER INITIAL	OTHER DOCUMENTS	nding Thor, Titl	le, Date, Pertinent Pages, Etc.)				
	Noe et al., "Polarization Mode Dispe http://ont.uni-paderborn.de/publika	ersion Compens ationen/ELPM9	sation at 20 Gb/s with Fiber-Bas 1820.html,at 1-5 (viewed and pri	ed Distribution Equalizer," nted February 8, 2001)			
	Noe et al., "Fiber-Based Distribution PMD Compensation at 20 GB/s," ECOC '98, Vol. 3 at 157-58 (September 1998)						
	Noe et al., "Integrated Optical LiNb System," Electronic Letters, Vol. 35,	O3 Distributed, No. 8 at 652-5	Polarization Mode Dispersion (4 (April 15, 1999)	Compensator in 20 Gbit/s Transmission			
	Ozeki et al., "Polarization Mode Disby a Pulse-Waveform Comparision A	persion Equaliz Algorithm," OF	zation Experiment Using a Varia °C '94 Technical Digest at 62-64	able Equalizing Optical Circuit Controlled (November 4, 1994)			
	Patcher et al., "Component for 2nd (at 1157-59 (June 19, 1997)	Order Compens	sation of Polarization Mode Disp	persion," Electronic Letters, Vol. 33, No. 13			
	Pua et al., "An Adaptive 1st Order P Theory and Demostration," Journal	olarization Moo of Lightwave T	de Dispersion Compensation Sys echnology, Vol. 18, No. 6 at 832	stem Aided by Polarization Scrambling: -41 (June 2000)			
	Roy et al., "A Simple Dynamic Polar 275-78 (February 1999)	ization Mode D	ispersion Compensator," OFC/l	IOOC '99 Technical Digest, Vol. 1, at			
C 1006	c:	Tode Dispersion No. 16 at 1365-6	1 Compensation of 2.4 bit Durati 57 (August 5, 1999)	ions of Differential Group Delay at 40			
		n Mode Dispers ovember 12, 19	ion Compensation in 40 Gbit/s (198)	Optical Transmission System," Electronics			
L-1	<u></u>	Effects of High 434-36 (April 2	ı-Order Polarization Mode Disp (900)	erison in Optical Fibers,: IEEE Photonics			
	Sobiski et al., "Fast 1st Order PMD (No. 1 at 46-48 (January 4, 2001)	Compensation w	vith Low Insertion Loss fo 10 Gł	bit/s System," Electronics Letters, Vol. 37,			
	Takahashi et al., "Automatic Compen Amplifier Systems," Electronics Lette	isation Techniq ers, Vol. 30, No.	ues for Timewise Fluctuating Po . 4 at 348-49 (February 17, 1994	olarization Mode Dispersion in In-Line			
AMINER			DATE CONSIDERED				

Docket Number (Optional) Application Number **YAFO-007** 09/911,898 INFORMATION DISCLOSURE CITATION Applicant(s) (Use several sheets if necessary) DAMASK, Jay N. Filing Date **Group Art Unit** July 24, 2001 2874 *EXAMINER OTHER DOCUMENTS (Included Author, Title, Date, Pertinent Pages, Etc.) INITIAL Watley et al., "Field Evaluation of an Optical PMD Compensator Using an Installed 10 Gbit/s System," OFC '00, Vol. 3, No. ThB6 at 37-39 (March 2000) Winters et al., "Experimental Equalization of Polarization Dispersion," IEEE Photonics Technology Letters, Vol. 2, No. 8 at 591-93 (August 1990) Winters ry al., "Adaptive Nonlinear Cancellation for High-Speed Fiber-Optic Systems," Journal of Lightwave Technology, Vol. 10, No. 7 (July 1992)

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

DATE CONSIDERED

EXAMINER